

MODELING BEHAVIOR OF AN ELECTRICAL CIRCUIT

Abstract of the Disclosure

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Behavior of an electrical circuit can be modeled using a trained neural network. For example, using one or more neural networks, power consumption, including leakage power and switching energy, can be estimated. Also, a profile of current versus time can be generated for the electrical circuit. A
10 hierarchy of neural networks may be used to model the circuit at different levels. In one embodiment, a circuit behavior is modeled using one or more neural networks, cluster values, and cluster probabilities.